

AKODIS, M.M., doktor tekhn.nauk, prof.; KORZUN, P.A., inzh.

Speed of the voltage recovery of cutouts during the disconnection of
short-circuited transformers. Izv.vys.ucheb.zav.; energ. 5
no.5:1-6 My '62. (MIRA 15:5)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.
Predstavlena kafedroy tekhniki vysokikh napryazheniy.
(Electric cutouts) (Electric transformers)

KORZUN, P.A., inzh.

Speed of voltage recovery in large electric power systems carrying
154 to 330 kv. Izv. vys. ucheb. zav.; energ. 6 no.7:7-14 J1
'63. (MIRA 16:8)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.
(Electric power distribution)

AKODIS, M.M., doktor tekhn.nauk, prof.; KORZUN, P.A., kand.tekhn.nauk

Choice of the parameters of a voltage recovery circuit in systems
for testing switches. Izv.vys.ucheb.zav.; energ. 2 no.10:105-108
0 '65. (MIRA 18:10)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.
Predstavlena kafedroy tekhniki vysokikh napryazheniy.

MITROFANOV, A.I., kand. ekon. nauk; TIKIDZHIYEV, R.N., kand. ekon. nauk; BEREZOVA, L.I.; SLABCHENKO, S.K.; SHAPIRO, Ye.A.; KORZUN, P.P., kand. ekon. nauk; KHAVKIN, S.N., kand. ekon. nauk; REZCHIKOV, A.I.; KONIKOV, L.A., red.; GERASIMOVA, Ye.S., tekhn. red.

[Determining specific capital investments in industry]
Opredelenie udel'nykh kapital'nykh vlozhenii v promyshlennost. Moskva, Ekonomizdat, 1963. 215 p.

(MIRA 17:1)

1. TSentral'nyy nauchno-issledovatel'skiy ekonomicheskiy institut.

(Capital investments)

IGNAT'YEV, A.K., redaktor; LETENKO, V.A., kandidat ekonomicheskikh nauk, redaktor; KORZUN, P.P., kandidat ekonomicheskikh nauk, retsenzent; SHAPCHENKO, A.A., inzhener, retsenzent; POPOVA, S.M., tekhnicheskiy redaktor; TIKHOMOV, A.Ya., tekhnicheskiy redaktor.

[Operational production planning at agricultural machinery (model project)] Operativnoe planirovaniye proizvodstva na zavodakh sel'skokhoziaistvennogo mashinostroeniya (tipovoi proekt) Pod red. A.K.Ignat'eva. Moskva, Gos.snauchno-tekhn.izd-vo mashinostroit. lit-ry, 1953. 221 p. (MLRA 8:11)

1. Moscow. Tsentral'nyy institut organizatsii truda i mekhanizatsii proizvodstva.
(Agricultural machinery industry)

*Centr. inst. organizatsii truda i mekhanizatsii
Mashinostroeniya*

KORZUN, Petr Petrovich; SLODKOVICH, Natal'ya Ivanovna; SATEL', E.A.,
professor, doktor tekhnicheskikh nauk; GORENSHTEYN, B.I., inzhener,
retsenzent; MIRT, G.Ya., dotsent, redaktor; BOGOLYUBOVA, I.Yu.,
redaktor izdatel'stva; MATVYIEVA, Ye.N., tekhnicheskiy redaktor

[Planning operations and production in machine building plants;
organization by work schedules] Operativno-proizvodstvennoe planiro-
vaniye na mashinostroitel'nom zavode; organizatsiya raboty po grafiku.
Pod red. E.A.Satelia. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1956. 191 p. (MLRA 9:12)
(Efficiency, Industrial) (Machinery industry)

KORZUN, S.I.

Strain in agloporite concrete in time. Dokl. AN BSSR 8 no. 92594-596
S '64. (MIRA 17:12)

1. Institut stroitel'stva i arkhitektury Gosstroya Belorusskoy SSR.

KORZUN, V.

Insect extermination and repair work in a full storage room.
Muk.-elev.prem. 21 no.10:30 0 '55. (MIRA 9:1)

1.Minskeye oblastnaya upravleniye GIK.
(Grain--Storage) (Disinfection and disinfectants)

KORZUN, V.I.

Morphological characteristics of the Kuprianov rye. Bot.;
issl. Bel. otd. VBO no.5:187-191 '63. (MIRA 17:5)

Three years on Mount Elbruz. Piatigorsk, Severo-Kavkazskoe krae-voe gos. izd-vo, 1936. 176 p.

1. Mountaineering. 2. Elbruz.

KORZUN, V.I.

RT-725 The observation work of the hydrometeorological net / Rabota nabliudatel'noi
gidrometeorologicheskoi seti.
Meteorologiya i Gidrologiya, (3): 75-78, 1946.

LOIDIS, A.P. [deceased]; PREOBRAZHENKIY, Yu.V., kand. geogr. nauk;
KORZUN, V.I., red.; KEDROLIVANSKIY, V.N., prof., red.; ZAYKOV,
B.D., doktor geogr. nauk, red.; GRIBANOV, N.N., kand. geogr.
nauk, red.; SELEZNEVA, Ye.S., kand. fiziko-matem. nauk, red.;
UKHANOV, V.V., kand. tekhn. nauk, red.; KUZ'MIN, L.D., red.;
KOZITSKIY, N.I., red.; KONONOVA, L.B., tekhn. red.

[Instructions for hydrometeorological stations and posts] Nastav-
lenie gidrometeorologicheskim stantsiam i postam. Leningrad,
Gidrometeor. izd-vo. No. 2. [Hydrometeorological observations at posts]
Gidrometeorologicheskie nabliudeniia na postakh [Maritime hydro-
meteorological observations] Marksie gidrometeorologicheskie nabliu-
deniya. 1948. 114 p. (MIRA 15:3)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorolo-
gicheskoy sluzhby. (Meteorology, Maritime)

KORZUN, V. I.

"Problems of the Infiltration of Water into Soil and the Possibility of Taking it into Account in order to Forecast Rain Floods"
Tr. Tsentr. In-ta Prognozov, No 30, 57, 60-84, 1953

The author attempts to analyze the role of infiltration in the general process of water absorption by river basins and, in particular, to verify the assumption of Ye. G. Popov (ibid., No 24, 51, 1951) concerning the approximate calculation of the intensity of infiltration (i.e., the formula $v = h \exp(-ht/d) \cdot v_k$ where v is the velocity of infiltration, h is the constant intensity of precipitation, t is the duration of fall, d is the moisture deficit in soil, and v_k is the steady-state value of v , soaking into soil). (RZhGeol, No 3, 1954)

Franklin Institute Report 1889 - Vol. 12 - No. 1
Franklin Institute, Philadelphia, Pa., U. S. A.
January 1, 1889.

SO: W-31187, 8 Mar 55

KORZUN, V. I.

Infiltration of water into the soil and possibility for considering
this water in forecasts of rain floods. Trudy TSIP no. 30:60-90 '53.
(Rain and rainfall) (Soil percolation) (MIRA 11:3)

KERZIN V T

2

Razviv'ie sluchashch' vtorogo perekop'ya
v 1958 godu v chislennosti i strukture
v 1958 godu. 1958 P. 11

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AID P - 3838

Subject : USSR/Meteorology

Card 1/1 Pub. 71-a - 1/35

Author : Korzun, V. I.

Title : Develop and improve hydrometeorological equipment designs

Periodical : Met. i. gindr., 6, 3-6, N/D 1955

Abstract : The article lists some details of meteorological equipment and some manufacturing plants. However, criticism is voiced of the poor quality of radio-sonde equipment due partly to insufficient testing methods and also to the slow work of manufacturing enterprises.

Institution : None

Submitted : No date

S/050/61/000/002/002/004
B117/B209

AUTHOR:

Korzun, V. I., Sidel'nikov, V. V., Sternzat, M. S.

TITLE:

Full automation of hydrometeorological work and design of an automatic telemetric network

PERIODICAL: Meteorologiya i gidrologiya, no. 2, 1961, 13-19

TEXT: The authors of the present paper examine the possibilities of a full automation of the Gidrometeorologicheskaya sluzhba SSSR (Hydrometeorologic Service USSR). The XXI. Congress of the Kommunisticheskaya partiya Sovetskogo Soyuza (Communist Party of the Soviet Union) and the June Plenary meeting of the Tsk KPPS (Central Committee of the Soviet Union) and the June Plenary meeting (1959) decided on a number of measures providing automatic service. In the authors' opinion, these measures in the hydrometeorologic service. Full automation is not enough emphasized. Nevertheless, it would be possible to establish full automation in the future hydrometeorologic service. The authors postulate the immediate elaboration of a basic scheme of full automation by the best-trained personnel of the service

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Full automation of hydrometeorological ...

itself as well as of specialized scientific and planning organizations. The following reasons of this necessity are presented: 1) Great achievements in science and engineering compel the hydrometeorologic service not to restrict its activity to the methods and techniques in use at present. 2) From a technical and economical viewpoint, automation of single fields of operation only seems neither justified nor expedient. 3) Technical progress in hydrometeorological service without a close relation to the progress in other branches of science and technology can hardly be imagined. Full automation of observation and evaluation not only reduces the number of operators but also renders the observations more objective. A number of working processes have been automatized during the past years. Devices were designed for substituting continuous recordings for visual and periodic measurements of single meteorological elements. Several types of automatic radio-meteorologic and relay systems were designed, as for instance APO (ARO), APMB (ARIV), APMC-nazemnaya (ground-ARMS), radio beacon by Alekseyev, DMC (DMS), and other devices. The planned full automation of the hydrometeorologic service makes it necessary to establish basically new ATMS telemetric stations which guarantee such an automation. Since this is a

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Full automation of hydrometeorological ...

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B117/B209

local business, the ATMS should be erected not only in difficultly accessible regions. This problem covers the automation of complete UGMS with as dense a network as possible and with smooth connection effecting perfect and universal action. However, the ATMS is the main element. It should consist of units that guarantee operation of all processes in a modern meteorologic station (Fig. 1). Assembling a system of primary measuring instruments that meet certain technical requirements is the chief problem in designing an ATMS. When devising typical measuring apparatus, two trends may be followed: Firstly, existing instruments may be altered according to the respective standard instructions. Secondly, new instruments intended for such measurements and preliminarily based on visual estimation may be created. Automation and tele-transmission of meteorologic information requires improvement of telecommunication engineering. In this respect the use of USW channels appears to be of interest. Presumably, several types of ATMS will have to be designed: ATMS of the type of a second-order meteorologic station and simplified ATMS for meteorologic observers. Accordingly, automatic telemetric stations for hydrologic and hydrometeorologic observations have also to be worked out. It would be expedient to construct all kinds

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Full automation of hydrometeorological ...

S/050/61/000/002/002/004
B117/B209

of meteorologic stations on the base of standardized units. The operator staff is another problem that has to be solved. A satisfactory reply to this question can be given only on the base of experience accumulated in the test stations. Preliminary estimations of the required investments showed that they are determined by the costs of the primary measuring instruments. However, the costs of special accessories to the ATMS will amount to about 40% of the costs of primary measuring instruments. There is 1 figure.

Card 4/5

KORZUN, V.I.

National Meteorological Center of the United States of America.
Meteor. i gidrol. no.12:45-48 D '61. (MIRA 14:11)
(United States--Weather research)

KORZUN, V.I.; RAKHMANOV, V.V.

International Hydrological Decade. Meteor. i gidrol. no.1:
8-11 Ja '64. (MIRA 17:3)

1. Glavnoye upravleniye gidrometeosluzhby i TSentral'nyy
institut prognozov.

KORZUN, V.I.

Hydrological decade. Vest. AN SSSR 34 no.6:83-86 Je '64
(MIRA 17:8)

1. Zamestitel' nachal'nika Glavnogo upravleniya gidrometeo-
rologicheskoy sluzhby pri Sovete Ministrov SSSR.

KORZUN, V.I.

Characteristics of the tillering of perennial rye. Sbor. trud. asp.
i mol. nauch. sotr. VIR no. 5:29-33 '64.

(MIRA 18:3)

KORZUN, V.I.

Influence of the exposition of slopes on the surface runoff
of snow waters. Meteor. i gidrol. no.11:22-32 N '65.
(MIRA 18:11)

1. Glavnoye upravleniye gidrometeorologicheskoy sluzhby
pri Sovete Ministrov SSSR.

KORZUN, V.I.

First session of the Coordinating Council of the International
Hydrological Decade held in Paris. Vest. AN SSSR 35 no.12:79
D '65. (MIRA 19:1)

MAKHACH, A.S.; KORZUN, V.P.

Volcanic and volcanic-sedimentary rocks of the lower part of the
Famennian stage of the Upper Devonian of the Pripyat fault. Dokl.
AN BSSR 9 no.1:37-41 Ja '65. (MIRA 18:10)

1. Institut geologicheskikh nauk Gosudarstvennogo geologicheskogo
komiteta SSSR.

AFANAS'YEV, G.D.; GON'SHAKOVA, V.I.; KORZUN, V.P.

Absolute age of some Upper Devonian alkali effusives in
the southern part of the Russian Platform and the Northern
Caucasus. Izv. AN SSSR. Ser. geol. 30 no.8:3-8 Ag '65.

(MIRA 18:9)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimii AN SSSR, Moskva.

MAKHNACH, A.S.; KURACHKA, V.P.; GALUBTSOU, V.K. [Halubtsou, V.K.];
UR"YEU, I.I.; KEDA, G.I. [Keda, H.I.]; KORZUN, V.P.

Devonian formations of the Strelichevo plateau in the Pripyat
Depression. Vestsi AN BSSR, Ser. fiz.-tekhn. nauch. no.1:84-94 '62.
(MIRA 16:9)
(Pripyat Valley--Geology, Stratigraphic)

MAKHNACH, A.S.; KORZUN, V.P.

Volcanic sedimentary rocks of the Frasnian stage in the Upper
Devonian of the Pripyat fault. Dokl. AN BSSR 8 no.12:810-813
D '64. (MIRA 18:4)

1. Institut geologicheskikh nauk Gosudarstvennogo geologicheskogo
komiteta SSSR.

MAKHNACH, A.S.; KORZUN, V.P.

Volcanic-sedimentary rocks in the upper part of the Famennian stage in the Devonian of the Pripyat fault. Dokl. AN BSSR 9 no.3: 172-174. Mr '65. (MIRA 18:6)

1. Institut geologicheskikh nauk Gosudarstvennogo geologicheskogo komiteta SSSR.

RUBIN, S. S., Prof., POPOVA, N. YE., DANILEVSKIY, A. F., KORZUNETS KAYA, N. K.

Trees

Influence of herbaceous vegetation and its root secretions on the growth of trees. Les. khoz
No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1957, Unc1.
2

KORZUNETSKIY, B.M. [Korzunets'kyi, B.M.]

Our experience in managing pharmacy centers. Farmatsev. zhur.
18 no. 5:70-72 '63. (MIRA 17:8)

1. Zaveduyushchiy aptekoy No.62 g. Novovolynska.

MISHIN, D.D.; KORZUNIN, G.S.

Effect of heat treatment on the magnetic properties of a
magnetic circuit. Fiz. met. i metalloved. 14 no.1:126-128
J1 '62. (MIRA 15:7)

1. Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo.
(Magnetic circuits) (Thermomagnetism)

ACC NR: AR6028413

SOURCE CODE: UR/0196/66/000/005/B001/B001

AUTHOR: Vdovin, Yu. A.; Korzunin, G. S.

TITLE: Nonuniform magnetic properties of electrical steel in weak fields

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 5B1

REF SOURCE: (Tr.) In-ta fiz. metallov. AN SSSR, vyp. 24, 1965, 78-82

TOPIC TAGS: electric steel, magnetic property

ABSTRACT: Brand E370 sheet electrical steel was investigated. It is found that the cold-rolled steel has nonuniform magnetic properties in weak fields ($B_{0.05}$ in one lot of sheets varied more than 1:4). With such a nonuniformity, the thickness spread of $\pm 10\%$ can be neglected in sorting the sheets. With the present methods of manufacturing various magnets intended for weak fields, no established connection between the magnet quality and the source-sheet quality exists; hence, sheet-by-sheet quality control of the above steel in weak fields is not warranted. Three figures. Bibliography of 8 titles. V. Olenicheva [Translation of abstract]

SUB CODE: 13 09 11

Card 1/1

UDC: 621.318.1

KORZUNIN, G.S.; YANUS, R.I.

Quality control of small billets for magnetic circuits. Defektoskopiia
no.1:40-43 '65. (MIRA 18:6)

1. Institut fiziki metallov AN SSSR.

SHIKINA, A.P.; KORZUNOVA, Ya.D.; LYSENKO, M.K.

Effect of the pruning of potato plants on the development and chemical composition of tubers. Trudy Inst.bot. AN Kazakh SSR 1:194-200 '55.

(MLRA 9:11)

(Kazakhstan--Potatoes)

Korzunova, Ye.D.

SHIKINA, A.P.; KORZUNOVA, Ye.D.

Effect of growing conditions on the solanine content of potato
tubers. Izv. AN Kazakh. SSR. Ser. biol. no.9:49-54 '55. (MIRA 9:4)

(POTATOES) (SOLANINE)

11/14/77/H, E.D.

✓Biochemical characteristics of some varieties of potato grown in the Southern zone of Kazakhstan. A. P. Shilina and E. D. Korzunova. Izv. Akad. Nauk Kazakh. S.S.R., Ser. Biol. 1955, No. 10, 66-80.—Analytical data are given for a no. of potato varieties grown in the indicated area. Starch content ranges from 74.50% to 82.11%; nitrogenous substances from 1.2% to 2.12%; solanine from 16.22 mg. % to 44.58 mg. %; ascorbic acid from 180.28 mg. % to 183.26 mg. %. In storage the content of sol. carbohydrates in the tubers increases significantly from low values to 10-15%, while starch declines correspondingly. Some varieties show an increase of ascorbic acid content in storage, specifically at the beginning of sprouting.

G. M. Kazalupoff

(1)

| | |
|------------|--|
| COUNTRY | : USSR |
| CATEGORY | : Cultivated Plants. Potatoes. Vegetables. |
| ABS. JOUR. | : <u>Botanika</u> , No. 1, 1959, No. 1054 |
| AUTHOR | : Shilina, A.P.; Korzunova, Ye.D. |
| INST. | : <u>Kazakh Academy of Sciences</u> |
| TITLE | : The Quality of Tubers of Some Potato Varieties Cultivated Under Conditions of southern Kazakhstan. |
| ORG. PUB. | : Izv. AN KazSSR. Ser. biol. i pochvoved., 1958, vyp. 1, 70-75 |
| ABSTRACT | : Presented is data on productivity, amount of dry substances, starch, protein, solanine and vitamin C in the tubers of a number of potato varieties which were tested in the course of 3 years in the botanical garden of the Academy of Sciences of the Kazakh Socialist Soviet Republic. The highest crop of the leveled tubers was given by the Katakin variety. Morning rose, Lorch and Southern were found to be unstable to superheating of the soil and quickly degenerated. The highest starch content was noted in tubers of Berlitzhagen and Ulyanovskiy varieties, while |
| CARD: | : 14 |

KORZUNOVA, Ye.D.

How the use of potatoes produced in mountainous areas affects carbohydrate metabolism and oxidation-reduction processes in potatoes grown in the plain. Izv. AN Kazakh. SSR. Ser. bot. 1 pochv. no.1:15-28 '61. (MIRA 14:4)

(Potatoes) (Carbohydrate metabolism)
(Oxidation-reduction reaction)

KORZUNOVA, Ye.D.

Effect of the mountain climate of the Trans-Ili Ala-Tau on the carbohydrate metabolism and oxidation-reduction processes in potatoes. Trudy Inst. bot. AN Kazakh. SSR. 12:178-195 '62.

(MIRA 15:5)

(Trans-Ili Ala-Tau—Potatoes)

(Carbohydrate metabolism)

(Oxidation-reduction reaction)

KORZUNOVA, Ye. D.

Biochemical characteristics of potatoes infected with virus
diseases. Trudy Inst. bct. AN Kazakh. SSR 20:93-102 '64.

(MIRA 18:1)

KORZUNOVA, Yekaterina Prokhorovna

?anticatalytic? (antikatalaznaya) Characteristics of Sulphides

Dissertation for candidate of a Medical Science degree. Chair of Biological
Chemistry (head, Prof. N.N. Ivanovskiy) Saratov Medical Institute, 1945

KORZUNOVA, Ye.P., kand.biolog.nauk

Electrophoretic study of serum proteins in experimentally induced
disturbances of the acid-base equilibrium. Zdrav.Belor. 5 no.12:
27-28 D '59. (MIRA 13:4)

1. Iz kafedry biologicheskoy khimii Smolenskogo meditsinskogo instituta
(zaveduyushchiy kafedroy - prof. V.I. Panisyak).
(BLOOD PROTEINS) (ACID-BASE EQUILIBRIUM)

KORZUNOVA, Ye.P.

Method for the determination of aldolase and methods for the
expression of its activity. Lab.delo 6 no.3:21-23 My-Je '60.
(MIRA 13:7)
1. Kafedra biokhimii (zav. - prof. V.I. Panisyak) Smolenskogo
meditsinskogo instituta.
(ALDOLASE)

Korzybski, R.

Poland/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1960

Author: Cepelewicz, S., and Korzybski, R.

Institution: None

Title: Detection of Metallic Poisons with Organic Reagents

Original

Periodical: Acta polon. pharmac., 1956, Vol 13, No 3, 213-218 (published in Polish with summaries in English and Russian)

Abstract: For the detection of metallic poisons in legal chemical analysis, the sample is mineralized by heating with HCl in the presence of $KClO_3$; the chlorine is removed from the solution thus obtained by passing air through the solution for 10 minutes and the presence of metals is detected by direct action of organic reagents. Hg is detected by the blue-violet color produced upon addition of 2-3 drops of an alcoholic solution of diphenylcarbazone (0.1 gm in 10 ml 95% alcohol) to one milliliter of the solution to be analyzed. Ions of Bi, Cu, Zn, and As do not interfere with the reaction. For the detection of Bi

Card 1/2

Card 2/2

KALINOWSKI, Kazimierz; KORZYBSKI, Roman

Mercurial coulometric determination of tolbutamide. Acta pol. pharm. 20 no.3:221-224 '63.

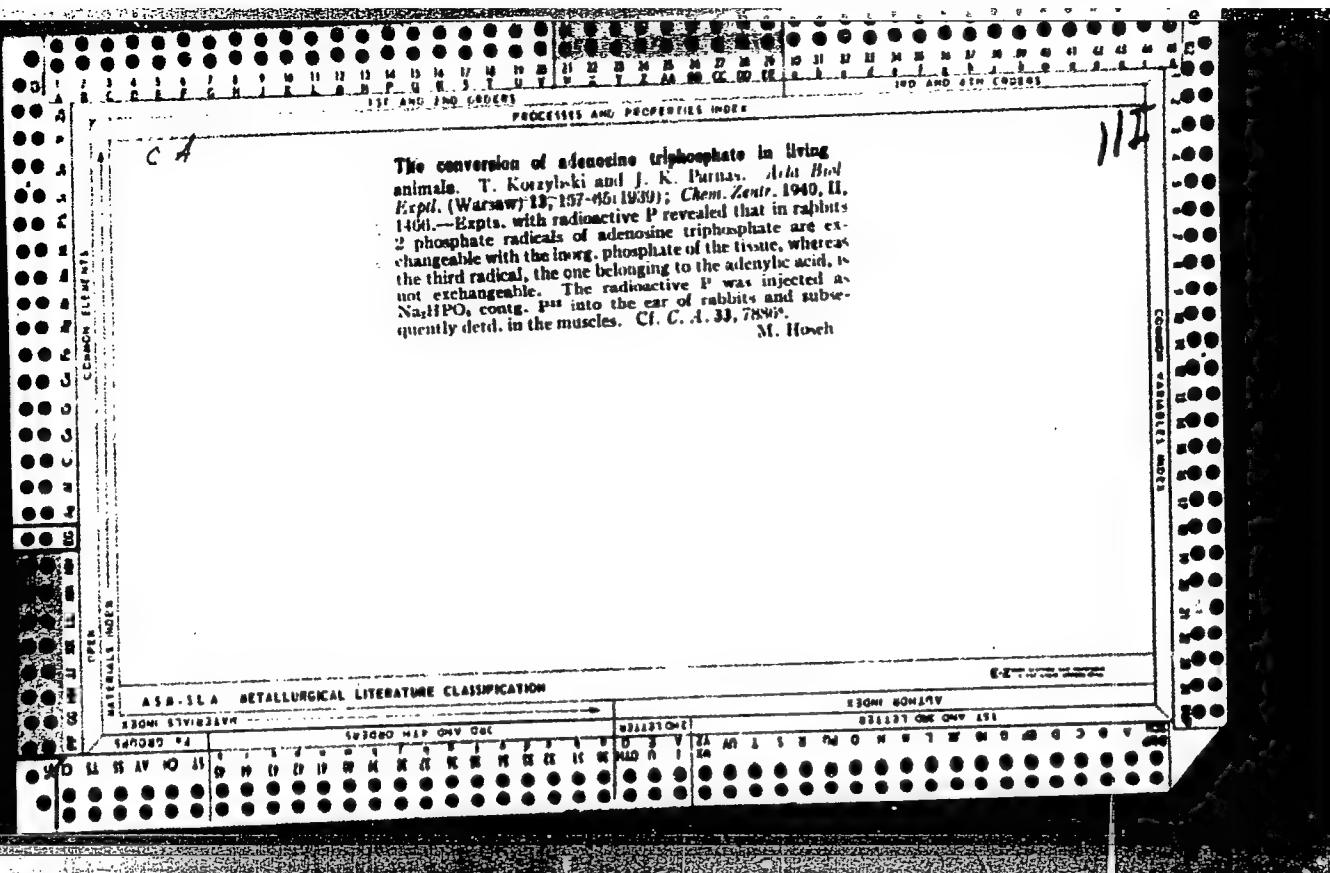
1. Z Zakladu Chemii Farmaceutycznej Akademii Medycznej w Lodzi
Kierownik: prof. dr K. Kalinowski.

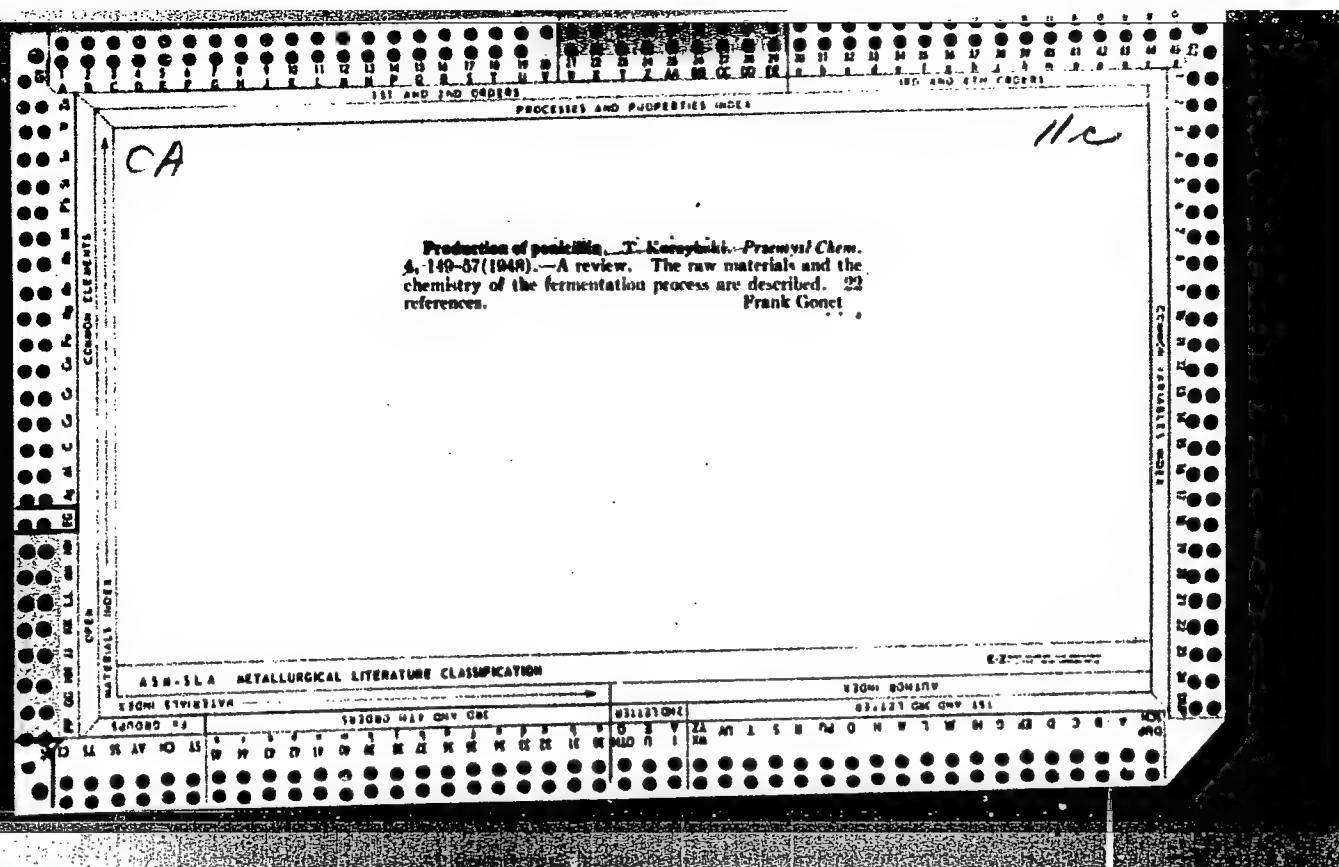
(TOLBUTAMIDE) (MERCURY) (INDICATORS AND REAGENTS)
(CHEMISTRY, PHARMACEUTICAL)

KALINOWSKA, Zofia E.; KORZYBSKI, Roman

Bromo- and chlорocoulometric microdetermination of carbutamide.
Acta Pol. pharm. 21 no.6:473-480 '64

l. Z Zakladu Chemii Farmaceutycznej Akademii Medycznej w Lodzi
(kierownik: prof. dr. K. Kalinowski).





17

CA

Procaine penicillin. Tadeusz Koraylski. *Przemyd*
Chem. 27, 203-4 (1948); *U.S.P. 2,719,702*.
Ca benzylpenicillin is dissolved to a concn. of 20-30%
in 40-60% an. procaine. Cryst. "procaine benzyl-
penicillin", m. 95-107° (decompn.), sepa. in 60-95%
yield. An almost colorless product is obtained from yellow
penicillin; the pigment remains in soln. B. A.

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CIA
/ The presence of high molecular weight glycogen fraction in liver glycogen preparations. Tadeusz Korzybski (Inst. Lekarski, Lvov, Poland). *Med. Doświadczalna i Mikrobiol.* 1, 285-90 (1940).—Glycogen was extd. using 5% TCA (cf. Ostern and St. Hube, *C.A.* 36, 5844¹) or 40% KOH and purified by alc. precip. Both preps. contained a high mol. wt. (approx. 5×10^6) fraction, which sepd. on centrifugation (2000 to 2800 g). The preps. were obtained from rabbit livers, and contained 0.02-0.03% N and 0.01-0.02% P.
L. Z. Roberts

ea

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A rapid method for the estimation of penicillin. Tadeusz Korzybski and Grzegorz Bagdasarian (P.Z.H. Warsaw, Poland). *Med. Doswidzial. i Mikrobiol.* 1, 632-6 (1949) (English summary).—From 2000-3000 units of penicillin in 1-2 ml. water or $M/15$ phosphate buffer are pipetted into two test tubes, 1.0 ml. 1 N NaOH is added to one of them and heated to boiling. The tube is chilled, 2.0 ml. 1 N HCl and 10.0 ml. 0.01 N I₂ (contg. 0.2% KI) are added, and Δt stand for 5 min. at room temp. and the excess I₂ is titrated with x ml. 0.01 N Na₂S₂O₃. To the second tube (the blank) 10.0 ml. 0.01 N I₂ is added and immediately titrated with y ml. of thiosulfate: $(y - x)/0.001454 =$ no. of penicillin units. This method is based on an assay of 81 com. samples, both cryst. and amorphous. The probable error is ± 1 to $\pm 2\%$.
J. Z. Roberts

Editorial Dept. of *Penicillin*

1951

KORZYBSKI, T.

Tuberculous caseation; lipids, Gruslica, Warszawa 17 no.3-4:205-221
(GML 19:3)
JL-D '49.

KORZYBSKI, T.

Tuberculous caseation; variability in stainability of caseation lipids
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(CIML 19:3)

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Iodometric determination of penicillin. T. Korzybaki and G. Bagdasarian (P.Z.H., Warsaw, Poland). *Med Doswiedczania i Mikrobiol.* 2, 408-90 (1950). English summary 489-92; cf. C.A. 45, 6081g; Alcina, C.A. 40, 7513. Variations in the steps of the detn. were introduced to test the scope and reproducibility of the method. Varying of NaOH concn. from 0.1 to 0.9N for a 10-min. hydrolysis at 22° does not affect the final amt. of I₂ reduced. PO₄³⁻ ions inhibit the above hydrolysis appreciably. Hydrolysis at 100° I-10 min. in 0.1 N NaOH gives identical results. 0.3 N NaOH hydrolyses 98% of penicillin (I) in 15 sec. Any contact of NaOH with rubber during hydrolysis introduces a pos. error due to NaOH sol. I₂ reducing compds in the rubber. Acid hydrolysis (0.1 N HCl) liberates only half of the I₂-reducing groups of I. The reducing of I₂ varies with the pH during the reaction; at pH 0.0 it is 11% lower than at pH 1.8, and comes to completion in 10 to 15 min. regardless of the pH, the time depending on the purity of I. A 100% excess of I₂ and stoppered vessels are required for satisfactory results. If acetone is used for purification of I it has to be removed completely before the detn., as 1 ml. of acetone reacts as 1500 units of I. The iodometric method is unsuitable for detn. of I in biol. fluids.

I. Z. R.

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Nephelometry of glycogen solutions. Tadeusz Kurylak (Inst. Lekarski, Lwow, Poland). *Mol. Diagnos. i Nefelometria*, 1, 273-84 (1940); cf. *ibid.* 1, No. 1 (1940).—The method of extr. affects the turbidity of glycogen solns. For the same prepa., however, the turbidity value is const. and is proportional to the log of the concn. and does not change after several alc. reprecip. The presence of acids and bases in the soln. decreases the turbidity even at room temp. A larger effect is obtained on heating with KOH. $(\text{NH}_4)_2\text{SO}_4$ decreases the turbidity, below 8 N but increases it (because of pptn. of glycogen) at higher concns. All other salts decrease turbidity at all concns. I. Z. Roberts

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Paper chromatography of penicillins by means of simple
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monicillin G and K. J. Z. R.

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BORENSZTAJN, D; GAWENDA-DZIERZYNSSKA, I; KORZYBSKI, T; KOWSZYK, Z; KUHYLOWICZ,
W; NIEDZWIECKA-TRZASKOWSKA, I.

Properties of nonspecific penicillin manufactured in Poland.
Polski tygod. lek. 7 no.7-8:177-181 18 Feb 1952, (CLML 22:2)

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Antibacterial properties of isonicotinic acid hydrazide. Polski
tygod. lek, 7 no. 18:562 5 May 1952. (CLML 22:5)

1. Of the National Institute of Hygiene in Warsaw.

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(3)

Precipitation of penicillin with organic solvents. B. Pckacka, Z. Kowszyk, and T. Korzybski. *Farm. Polska* 9, 214-6 (1953).—A sample of amorphous Na salt of penicillin, derived from the undersurface culture of *Penicillium chrysogenum* Q 176, strength about 1024 units/mg., was tested with the following anhyd. solvents: MeOH, EtOH, PrOH, BuOH, and isoamyl alc.; Et₂O and 1,4-dioxane; ethyl-, butyl-, and amylacetates; 99% Me₂CO, MeCOEt and iso-BuCOMe; and CHCl₃. The effects of these solvents on the iodometric reaction results were studied with respect to the detn. of penicillin. The lower alcs. interfered only to a small degree in the detn., while higher alcs., and particularly ketones, gave erroneous results. However, if the concn. of penicillin in these solvents is of the order of several thousands of units, the error of detn. will then not exceed more than a few %, which is within the limits of exptl. error for the method. The solv. characteristics of penicillin in the above solvents are tabulated. The following solvents are recommended for quant. testing: EtOH, BuOH, PrOH, isoamyl alc., and Me₂CO. These solvents cause initial soln. of the sample, followed by light copious pptn. of the Na salt of penicillin. Exptl.: 4-4.5 ml. of one of the solvents was added to 1 g. of the yellow penicillin. During soln., a yellow-white ppt. was formed, while the supernatant remained brownish. The soln., with ppt., was placed in an ice box for 30 min., centrifuged, the soln. (S_1) poured off, and its vol. measured. The remaining ppt. was suspended in 3 ml. of the same solvent, centrifuged, and the S_2 soln. poured off and vol. measured. The ppt. was washed 2 times with 3 and 2 ml. of Et₂O, and dried at room temp. in a vacuum desiccator over CaCl₂. (1) Strengths of

the samples obtained (iodometric method) averaged 1370 units/mg. from EtOH, 1478 from PrOH, 1532 from BuOH, 1328 from isoamyl alc., 1398 from Me₂CO. (2) Pptn. by means of the above solvents leads to a marked increase in penicillin yields: per g. of yellow amorphous penicillin-EtOH, 41%; PrOH 60; BuOH 68; isoamyl alc., 53; Me₂C₂ 56; an av. of 60%. Samples, 10,000 units/ml., were photoelectrically analyzed; the lightest samples were obtained by butanol pptn. which were 13 times lighter in color than the original. Me₂CO pptn. was 5 to 8 times lighter. The relative amts. of benzylpenicillin (G) increased, while that of neptipenicillin (K) decreased for all samples. Best results were obtained by pptn. with EtOH. The Z nos. (C.A. 45, 7748b) were for the original sample and for samples resulting from pptn. by BuOH = 0, for other solvents = ?.

Clayton F. Holloway

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CIA-RDP86-00513R000825020013-0"

KOWSZYK, Zusanna: KORZYBSKI, Tadeusz

Preparation of aureomycin from fermentation fluids; method
of butanol extraction and precipitation in alkaline reaction.
Med.dosw.mikrob. 7 no.2:105-124 1955.

Z Państwowego Zakładu Higieny w Warszawie.
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reaction)

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The recent discovery of albomycin by Soviet scientists provided another useful broad spectrum antibiotic of low toxicity. Albomycin is a polypeptide containing iron; in the acid hydrolysate of albomycin, ornithine, serine, glutamic acid, alanine, glycocol and proline were found. The author calls attention to the domination of practical problems in antibiotic research at the expense of relatively few conducted basic researches. It is noteworthy that the role of antibiotics in the life of the cell which produces the antibiotic is still unknown. Also the mechanism of selective toxicity of the antibiotic is still obscure. The author continues to stress that only the support of theoretical studies can change the present empirical approaches to the problem into rational science. Anigstein - Galveston, Tex. (XX, 2, 4)

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(PHOSPHOLIPIDS) (LIPID METABOLISM)

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(COENZYMES) (CYTOSINE NUCLEOTIDES)
(RATS) (LIVER) (POULTRY)
(CEREBRAL CORTEX) (FROGS) (ADIPOSE TISSUE)
(SNAILS) (BRAIN) (INSECTS) (PANCREAS)
(SILKWORMS) (SARCOMA 180, CROCKER)

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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3,
No. 12, Dec. 1954, Uncl.

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Underwater fishtraps. p. 13 GOSPODARKA RYBNA. Warszawa Vol 7, No. 8,
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Preparing canned "Baltic sardines" from Baltic herring. p. 20
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The Central Administration of the Fish Industry has accomplished with a surplus the plan
for three quarters of 1955. p. 24.
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p. 291

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Dr. P. Lukl) a Vnitri vojenske nemocnice v Olomouci (nacelnik
MUDr. C. Cihalik).

*

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11 no.11:599-603 '63.

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2. Prumyslove stavby Gottwaldov (for Kos).

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Use of electrode heating of concrete in building the reinforced concrete roof of a lenticular reservoir. Inz stavby 13 no.4:137-143 Ap '65.

1. Higher School of Technology, Brno (for Kohut). 2. Prumyslove stavby National Enterprise, Gottwaldov (for Kos).

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no.2:30 Ap '63.

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KOS, D., inz.

Subway in Milano. Gradevinar 14 no. 7240 Jl '62.

COUNTRY : Czechoslovakia H-6
CATEGORY : Chemical Technology. Chemical Products and Their
Applications--Safety and sanitation.
ABS. JOUR. : RZKhim., No. 21 1959, No. 75554
AUTHOR : Machacek, V., Hubacek, M., Kos, E., Panyr, M., and
INST. : Not given
TITLE : Layout of a Radiochemical Laboratory for Work
with Substances of Medium and High Radioactivity
ORIG. PUB. : Jaderna Energie, 5, No 2, 55-60 (1959)
ABSTRACT : The layout of the physical chemistry laboratory
at the Nuclear Physics Institute, currently un-
der construction in the Czech Peoples Republic,
is described. The work of the laboratory will
involve substances of medium and high alpha,
beta, and gamma activity. The laboratory is di-
vided into four sections, depending on the degree
of radioactivity of the substances to be handled.
The first section comprises the 'hot' laboratory
for work with substances of very high activities.
CARD: 1/4 *Weber, M.

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|------------|---|--|-------|--|
| COUPTRY | : | Czechoslovakia | H-6 | |
| CATEGORY | : | | | |
| ABS. JOUR. | : | RZKhim., No. 21 1959, No. | 75334 | |
| AUTHOR | : | | | |
| INST. | : | | | |
| TITLE | : | | | |
| ORIG. PUB. | : | | | |
| ABSTRACT | : | the control panels by massive walls of concrete. The buildings are equipped with forced ventilation and a special ventilating system is provided for the hazardous areas (pits and hoods), in which a reduced pressure is maintained. The exit air is passed through cloth filters, electrostatic precipitators, and exhausted through a 70-m high pipe. | | |
| | | V. Berenfel'd | | |
| CARD: 4/4 | | | | |

171

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Possible preservation of desoxyribonucleic acid integrity following "in vivo" irradiation with ionizing radiations. II. Inhibition of desoxyribonucleic acid degradation with gamma-rays with the aid of some Krëbs' cycle metabolites.
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1. Institut "Ruder Boskovic", Zagreb, radiobioloski odjel
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E. KCS

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Bul. sc. Youg 7 no.1/2:14 F-Ap '62.

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